

20010827.qrp v02_n294.qrl.20010827

Date: Mon, 27 Aug 2001 19:03:08 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2294

QRP-L Digest 2294

Topics covered in this issue include:

- 1) [105828] Re: OT - Dish antennas?
by Steve Yates <aa5tb@yahoo.com>
- 2) [105829] Re: Overloaded!
by VE3JC - John C <jbcumming@wwdc.com>
- 3) [105830] Re: Emtech ZM-2?
by Bob Nielsen <nielsen@oz.net>
- 4) [105831] Re: Emtech ZM-2?
by "Bob Tellefsen" <n6wg@earthlink.net>
- 5) [105832] FS: QRP and other radio items
by Thomas Kuehl <ac7a@gci-net.com>
- 6) [105833] Re: DC Voltage Booster?
by Bruce Muscolino <w6toy@erols.com>
- 7) [105834] Re: K2 FS
by Donn Kuse <casey.jay@gte.net>
- 8) [105835] Re: DC Voltage Booster?
by sigcom@juno.com
- 9) [105836] Thanks!
by "John L. Sielke" <w2agn@pobox.com>
- 10) [105837] Re: OT - Dish antennas?
by Mighty Mik <mightymik2@home.com>
- 11) [105838] DC Voltatge Booster
by n4so@juno.com
- 12) [105839] TL-110 Kenwood amp
by Michael Goins <mgoins@usa.net>
- 13) [105840] Re: FREEBIE EXCHANGE
by Pete Burbank <plburbank@kih.net>
- 14) [105841] Re: Emtech ZM-2?
by "Bill Allen" <wallen@our-town.com>
- 15) [105842] Ni-Cd/Ni-MH charger at Radio Shack
by Dave Redfearn <n4elm@home.com>
- 16) [105843] Electronics Design Tools
by "Ronald Smith" <ronald@atdial.net>
- 17) [105844] Identify this component - please!
by "Mike Pupeza" <mpupeza@sympatico.ca>
- 18) [105845] Station Activities August 2001
by Robert Wright <rwright@soml.com>
- 19) [105846] CQC Summer QSO Party, K7FD results

- by "N7SG K7FD" <k7fd@hotmail.com>
- 20) [105847] Update on FS QRP and other radio items
by Thomas Kuehl <ac7a@gci-net.com>
 - 21) [105848] Re: Ni-Cd/Ni-MH charger at Radio Shack
by lhlousek <lhlousek@nvgbell.net>
 - 22) [105849] Re: CQC Summer QSO Party, K7FD results
by "N7SG K7FD" <k7fd@hotmail.com>
 - 23) [105850] Re: Measuring Tape Antenna Question
by "Dennis Payton" <dpayton@fwi.com>
 - 24) [105851] Re: Identify this component - please!
by Pete Burbank <plburbank@kih.net>
 - 25) [105852] Re: Antenna sum-up -long
by Beth Gardner / Dan Maguire <bethdan@pacbell.net>
 - 26) [105853] Re: Identify this component - please!
by "Robert P. Okas" <vintage@best.com>
 - 27) [105854] Re: Identify this component - please!
by "Trevor Jacobs" <fxtech@earthlink.net>
 - 28) [105855] Stealth flagpole antenna
by ARDUJENSKI@aol.com
 - 29) [105856] Measuring Tape Antenna de AL7FS
by Jim Larsen AL7FS <AL7FS@pobox.alaska.net>
 - 30) [105857] Re: OT - Dish antennas?
by "Mark J. Dulcey" <mark@buttery.org>
 - 31) [105858] Re: Antenna sum-up -long
by "Karl F. Larsen" <k5di@zianet.com>
 - 32) [105859] RE: DC Voltatge Booster
by "John L. Sielke" <w2agn@pobox.com>
 - 33) [105860] Re: FREEBIE EXCHANGE
by "Tim A. King Jr." <iflyos@hotmail.com>
 - 34) [105861] Re: DC Voltage Booster
by "Ronald C. McConnell" <rcmcc@earthlink.net>
 - 35) [105862] Old P.S. Getting Tired
by kcieslak <kcieslak@execpc.com>
 - 36) [105863] Re: Measuring Tape Antenna de AL7FS
by "Dennis Payton" <dpayton@fwi.com>
 - 37) [105864] Re: Old P.S. Getting Tired
by "ZOOM" <kandrparker@sympatico.ca>
 - 38) [105865] Re: Old P.S. Getting Tired
by "w8diz" <w8diz@fpqrp.com>
 - 39) [105866] OT- cellular phone beam antennas
by n4so@juno.com
 - 40) [105867] Re: Identify this component - please!
by Mike Pupeza <mpupeza@sympatico.ca>
 - 41) [105868] Re: HTX-100
by "Juan Ferrari" <puntrad@usa.net>
 - 42) [105869] Re: Old P.S. Getting Tired
by "Karl F. Larsen" <k5di@zianet.com>
 - 43) [105870] FS-HW-8 and Ten Tec Argosy

by Edwin Lappi <ae4ec@usa.net>
44) [105871] 17mtr DSB - finishing up
by Bill Meara <n2cqr@clix.pt>
45) [105872] Re: Old P.S. Getting Tired
by Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
46) [105873] cosmetics on argosy
by Edwin Lappi <ae4ec@usa.net>
47) [105874] Re: Portable SWL RX on Sale
by Norman Young <norman_y@yahoo.com>
48) [105875] Re: OT- cellular phone beam antennas
by "Mike Yetsko" <myetsko@insydesw.com>
49) [105876] 17mtr DSB -- 000PS forgot URL
by Bill Meara <n2cqr@clix.pt>
50) [105877] Re: OT- cellular phone beam antennas
by Darrel Swenson <k0awb@tconl.com>
51) [105878] Lower Price on FT-817
by Allen Jones <w9dz@yahoo.com>
52) [105879] Contest: CQC Contest Results - K7RE
by Brian Kassel <bkassel@dancris.com>
53) [105880] Re: OT- cellular phone beam antennas
by David Beach <dbeach@blvl.igs.net>
54) [105881] Re: OT- cellular phone beam antennas
by "Mike Yetsko" <myetsko@insydesw.com>
55) [105882] dish feeds
by Mighty Mik <mightymik2@home.com>
56) [105883] TKIT 1056 on 6 meters
by "James P. Osburn, P.E." <j.p.osburn@ieee.org>
57) [105884] Found Laptop Adapter!
by "John L. Sielke" <w2agn@pobox.com>
58) [105885] Re: Cub Fox Announcement KD5KXF
by "Mike Malone" <mmalone@worldlogon.com>
59) [105886] Cub Fox Tuesday 2200 Eastern Wednesday 0200Z
by "David Porter" <aa3ur@home.com>
60) [105887] want to buy dsw30
by "Hartwell, Martin E, NLCIO" <mehartwell@att.com>
61) [105888] Tuner Wanted
by "George, W5YR" <w5yr@att.net>
62) [105889] X5 shockwave hit 2000UTC
by "Paul Harden, NA5N" <na5n@rt66.com>
63) [105890] Re: Identify this component - please!
by "Trevor Jacobs" <fxtech@earthlink.net>
64) [105891] Re: Lower Price on FT-817
by "Howard Kraus" <K2UD@adelphia.net>
65) [105892] Another "Atomic" clock
by Ray Sills <raysills@1stconnect.com>
66) [105893] Re: OT- cellular phone beam antennas
by Darrel Swenson <k0awb@tconl.com>
67) [105894] RE: 17mtr DSB - finishing up

by Nick Kennedy <nkennedy@tcainternet.com>

Date: Sun, 26 Aug 2001 16:20:49 -0700 (PDT)
From: Steve Yates <aa5tb@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105828] Re: OT - Dish antennas?
Message-ID: <20010826232049.66991.qmail@web14603.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

David,

The little antennas make great antennas for the 10 GHz band. The offset feed prevents the feed from interfering with the reflector illumination. All you have to do is come up with you own feed antenna which can easily be constructed from 3/4" copper plumbing among other things.

Paul Wade, N1BWT has a nice article about off-set fed parabolic dish antennas that speaks directly about the type of antennas that you have.

Look for his article in the table of contents (Part 1, section 5) on W1GHZ's Online Microwave Antenna Book. The URL is:

<http://www.qsl.net/n1bwt/contents.htm>

Have fun!

=====

Steve Yates

Call: AA5TB
E-Mail: aa5tb@arrl.net
Location: Fort Worth, TX - Grid EM12gs
Web Page: <http://www.geocities.com/aa5tb>

Do You Yahoo!?

Make international calls for as low as \$.04/minute with Yahoo! Messenger
<http://phonecard.yahoo.com/>

Date: Sun, 26 Aug 2001 19:18:32 -0400
From: VE3JC - John C <jbcumming@wwdc.com>
To: jokortge@prodigy.net

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105829] Re: Overloaded!
Message-ID: <3B8983C8.8544EB98@wwdc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Jim,

Don't EVER feel guilty about leaving the unanswered emails hanging. It's typical for yourself and the many other class individuals on this list to take to heart every circuit that fails to resonate, and every technical question that remains in limbo.

But whether you get around to responding to those emails or not, the sun will come up in the morning. (Wait a minute... after listening to the bands yesterday, I'd better not make any rash predictions!)

Bottom line is, we're all appreciative of the "magic" you're sharing with us, and you're probably doing us a favor by "keeping us hanging" with responses to technical emails.

Vy 73 &72, John VE3JC

"Jim Kortge, K8IQY" wrote:

>
> Gang,
>
> I'm woefully behind in answering some of my email... I've gotten some
> I'll eventually get back to each of you...
> Jim, K8IQY

Date: Sun, 26 Aug 2001 16:43:35 -0700
From: Bob Nielsen <nielsen@oz.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105830] Re: Emtech ZM-2?
Message-ID: <20010826164334.A25697@oz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Sun, Aug 26, 2001 at 05:18:51PM -0500, Bill Allen wrote:

> Hi Gang,
>
> Has anyone used the Emtech ZM-2 ATU? Results? Why does it have
> knobs if it is and autotuner? :-) For K2 operators, any comparison
> to the K2ATU?

It is not an autotuner. It covers a wide range of impedance and one can find a match fairly quickly, however. I've seen a few reports that the indicated match point (dimming of LED) does not agree with what you see when using a SWR bridge, but in my (somewhat limited) experience with the ZM-2, it seems to provide an adequate match.

Bob

--

Bob Nielsen, N7XY
Bainbridge Island, WA
IOTA NA-065, USI WA-028S

nielsen@oz.net
<http://www.oz.net/~nielsen>

Date: Sun, 26 Aug 2001 17:00:55 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [105831] Re: Emtech ZM-2?
Message-ID: <MABBJOEABOILMKCJCLFCOEGJCKAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bill

In the case of the ZM-2, the term ATU is a confusion factor. ATU also gets used for automatic tuners, as in the K2's ATU. The ZM-2 is a manual tuner, and from all reports I've seen, works just fine for QRP usage.
73, Bob N6WG

Date: Mon, 27 Aug 2001 05:09:35 -0700
From: Thomas Kuehl <ac7a@gci-net.com>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [105832] FS: QRP and other radio items
Message-ID: <3B8A387F.BEBC58C1@gci-net.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If you are not interested in For Sale items, please delete this message now - thanks.

Howdy,

In October, I am planning on taking a number of amateur radio items that are excess to my needs to the Tucson Hamfest. But before doing so, I'd like to give the list first chance at some of my better items. Most items listed are in very nice condition (unless otherwise stated). I take good care of my stuff; it is clean, and in good working order. Prices do not include shipping from Tucson, AZ. I will consider the best offers; lower, asked, or higher!

1) HW-8, with HWA-7-1 power supply - It is mostly in stock condition with the following mod's:

Increased break-in delay (K6YB -June '79 HR), Improved keying (W3HVK - August '82 HR), Improved stability and dial calibration (W3HVK - August '82 HR), and a low-Z audio matching transformer has been added as well. I made these mod's myself and they can be easily reversed, but they provide useful improvements. There are no extra" holes in the case. The tuning cap is solid (no loose plates). Condition is what I rate it a 9 out of 10. Price is \$120.

2) HW-8 - Stock condition except the previous owner added a audio matching transformer and a small speaker in the top of the case. I replaced the blown output transistor, a 2N4427, with a 2N3553, and just completed alignment as well. The previous owner had drilled a small hole in the back panel, and there is some very minor panel wear by the main tuning knob. Because of the speaker mod and hole, I rate it about a 7.5 to 8. The tuning cap is solid. Price is \$95.

3) Paddlette paddle - This is the larger version. It includes the magnetic base that straps to your knee. This has been my portable paddle and only gets used when I travel. Price is \$30.

4) Yaesu MH-31B8 microphone - This was purchased for use with my K-2. I have never made a single SSB contact; therefore, it is virtually unused. Price is \$22.50.

5) Roller inductor - High power handling unit, with a maximum inductance of about 30uH. It has a built in turns counter! This was pulled from a military or industrial application, and appears to be made by GE. I traded a very nice Triplet meter for it, but never got around to building that QRO tuner. Price is \$25.00

6) Palomar PT-340 Tuner tuner - This is a noise bridge

tuning aid for tuners. Its condition is like new and it has the manual. Price is \$25.00

7) Magnacraft T/R relay - It has 3, SO-239 connectors (so called UHF type). The coil resistance is 200 Ohms, and it appears to require 18 to 24VDC. Price is \$7.00.

8) Dow-Key T/R relay - It has 3 BNC connectors. This has a 12VDC coil. It is used in appearance, but works just fine. Price is \$7.00.

9) RS lightweight monaural headphones - These are lightweight phones listed for SWL etc. Other than trying them out, they have had no use. They are in the original packaging. Price is \$5.00.

10) Un-built Neophyte Receiver kit - By 624 kits. It is an NE602 based, direct conversion receiver published in QST (Feb. '88). The kit includes the PC board, board level parts, a gain pot, and documentation. Note that a 365pF tuning cap is required (no varicap's used in design) and is not supplied. Price is \$20.

11) Enclosure - Aluminum, approximately 5.75" H, 10" W, 13" L. Somewhat stylized, with grey finish. It has an internal chassis, cooling vents on the sides, and large, flat rubber feet. This box has not been drilled or cut. Enclosures like these are expensive. \$30.00.

12) Book - Antennas and Techniques for Low-Band DXing, 2nd ed., by John Devoldere, ON4UN. This is in nearly new condition. \$10.00

13) Book - 1999 ARRL Handbook, 67th edition. Looks brand new. \$12.00.

14) Book - The ARRL Antenna Book, 17th edition (1994), with software. Used, but in decent condition. \$9.00.

15) Book - VHF UHF Manual, 4th ed., by G.R. Jessop, G6JP. This is a hardback in very nice condition. \$10.00.

16) Book - Where do we go next? by Martti Lane, OH2BH. Good condition. \$4.50

I apologize up front for the excessive bandwidth, and if I have made any errors in my listings. Please contact me directly regarding any of the listed items.

Best regards, Thomas - AC7A (Tucson)

Date: Sun, 26 Aug 2001 20:19:09 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: w2agn@pobox.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [105833] Re: DC Voltage Booster?
Message-ID: <3B8991FD.8C79CC4A@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

John,

>
> Somewhere I read an article on a booster, that will take 12V in, and give you
18V or
> so out. Max current I need is about 2 amps.
>

The essential problem with voltage converters is the power output. To
get 2 amps at 16 volts from 12 volts you have to start with about 3 amps
in. Nothing is for free. The unusually high current makes them
unattractive in most cases.

72

Date: Sun, 26 Aug 2001 21:16:29 -0400
From: Donn Kuse <casey.jay@gte.net>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [105834] Re: K2 FS
Message-ID: <3B899F6D.91DD572E@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For Gary Slagel,
Tried to email you at your yahoo address and it bounced back. I am
interested in the K2 plus have a couple other questions. I get this
thread in digest form.
73, Tnx,
Donn, WB4ZWT

Date: Sun, 26 Aug 2001 18:12:34 -0700
From: sigcom@juno.com
To: qrp-1@Lehigh.EDU
Subject: [105835] Re: DC Voltage Booster?
Message-ID: <20010826.181237.-108325.16.sigcom@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

On Sun, 26 Aug 2001 20:19:09 -0400 Bruce Muscolino <w6toy@erols.com>
writes:

> The essential problem with voltage converters is the power output.
> To
> get 2 amps at 16 volts from 12 volts you have to start with about 3
> amps
> in. Nothing is for free. The unusually high current makes them
> unattractive in most cases.

Lessee.....12 Volts at 3 Amps is 36 Watts. 16 Volts at 2 Amps is 32
Watts. 36 Watts input for 32 Watts output is 88 percent efficiency.
This is a problem? For backpackers, maybe.

If you want to play around with D.C. voltage convertors, one source for
almost free parts to build a step-up or step-down convertor is those
cheap vehicular chargers made by the gazillions for portable cellular
phones. Almost all of them use the same little 8-pin switch-mode
regulator I.C., the LT34063 (AKA MC34063, etc.) Along with less than a
dozen external components, this I.C. can supply about 1 Amp (!) and more
current can be had with an added pass (or is it boost?) transistor. How
to use them can be found in the specification sheets on the various
manufacturer's web sites.

If there is a drawback to these little power supplies, it's not the
efficiency; It's the R.F. noise they generate. Good filtering and
shielding may be required for H.F. radio use.

73.....Steve 'The Scrounger' Smith
WB6TNL Oxnard, CA USA
"Snort Rosin" and keep those soldering irons smokin'!

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Date: Sun, 26 Aug 2001 21:46:22 -0400 (EDT)
From: "John L. Sielke" <w2agn@pobox.com>
To: qrp-l@lehigh.edu, njqrp@njqrp.org
Subject: [105836] Thanks!
Message-ID: <XFMail.20010826214622.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

Thanks for all the suggestions. I think I have a direction to go now. Now all I need
is for K7RE to write a QRP AFIELD version of QRPDUPE ;-)

More info on QRP AFIELD plans later.

John W2AGN

Date: Sun, 26 Aug 2001 18:46:53 -0700
From: Mighty Mik <mightymik2@home.com>
To: djlinin@positech.net
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105837] Re: OT - Dish antennas?
Message-ID: <5.0.2.1.0.20010826184205.00a31b70@mail>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I don't know what the bottom frequency is that will give you gain, but i'll bet there is someone on list that can. Speaking of cans, certain sized cans can be converted to feed horns. You can also get Gunnplexers in 10 and 24GHz varieties that will work great with these. I think i read an article that used these to extend 802.11 wireless networks, so they may work down at 2.4GHz.

At 05:08 PM 8/26/01 -0500, you wrote:

>My neighbor has a couple of old tv dishes (Dish Network type stuff)
>that he is getting ready to trash. Might these be of any use for ham
>stuff? As I understand it, they are not functioning for their original
>purpose. I'm not interested in using them for tv use, either, but

>wondered about someday getting into the microwave game.
>
>Any thoughts would be appreciated.
>
>
>
>73
>
>David, KBOZKE
>kb0zke@arrl.net

Date: Sun, 26 Aug 2001 21:08:30 -0500
From: n4so@juno.com
To: qrp-1@lehigh.edu
Subject: [105838] DC Voltatge Booster
Message-ID: <20010826.211727.8734.1.N4S0@juno.com>

Sam Ulbing, N4UAU, My All-Purpose Voltage Booster, QST July 1997, page 40

page 42 has design details

LM2587 is the switching regulator
When the article came out, a PC board and parts was available.

Ken Brown-N4S0
Mobile, AL EM50tk
NC-20 at 5 watts and 4 ele. yagi

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<http://dl.www.juno.com/get/tagj>.

Date: 26 Aug 2001 21:42:39 EST
From: Michael Goins <mgoins@usa.net>
To: qrp-1@lehigh.edu
Subject: [105839] TL-110 Kenwood amp
Message-ID: <20010827024239.15236.qmail@aw163.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

stumbled over this ad - no connection to seller - just remembered someone=
on
the list was looking for one. usual precautions - again, I do not know th=
is
seller. =

mike
wb5yjx

KENWOOD TL110

QRP amplifier for TS120/130 series QRP rigs from Kenwood. Works great wit=
h 100
watts output. 80-10 meters Comes with cables but no manual. Scratches, sc=
uffs
and glue residue but overall in good working condx. \$190.00 shipped in 48=
states via Priority mail. Email k0az@sofnet.com

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Sun, 26 Aug 2001 22:52:13 -0400
From: Pete Burbank <plburbank@kih.net>
To: phil@vaxxine.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105840] Re: FREEBIE EXCHANGE
Message-ID: <5.0.2.1.0.20010826223314.00aacc60@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:32 AM 8/26/2001 -0400, Phil (VA3UX) wrote:
>My commendations also !!
>Snip

What wonderful stories!!! Reminds me of when many folks opened up their
junkboxes
and said "Take what you want" when I was starting out. One guy was headed for
Florida and wanted me to use his brand new NC-300 during the summer. The
generosity
and ethics of the ham radio community are unsurpassed.
I'm sure glad to be among all of you.
73 to all
Pete NV4V

Date: Sun, 26 Aug 2001 21:56:46 -0500
From: "Bill Allen" <wallen@our-town.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105841] Re: Emtech ZM-2?
Message-ID: <003801c12ea3\$e945d7a0\$67bac1d0@ourtown.com>

Hi Gang,

I received several responses. Thanks to everyone and sorry about my misunderstanding concerning "autotuner" :-)

The ZM-2 got rave reviews in the posts that I got! Thanks!

72
Bill KC5ADF
FISTS #7332
FPqrp #337
K2 #1068

----- Original Message -----
From: "Bill Allen" <wallen@our-town.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, August 26, 2001 17:18 PM
Subject: Emtech ZM-2?

> Hi Gang,
>
> Has anyone used the Emtech ZM-2 ATU? Results? Why does it have knobs if
it
> is and autotuner? :-) For K2 operators, any comparison to the K2ATU?
>
> 72
> KC5ADF
> Bill Allen
>
>
>
>

Date: Sun, 26 Aug 2001 22:32:56 -0500
From: Dave Redfearn <n4elm@home.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105842] Ni-Cd/Ni-MH charger at Radio Shack
Message-ID: <3B89BF68.3148250D@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

So I was looking for some batteries for my K1 battery option and happened to wander into RS.

The deluxe AC 8 cell Ni-MH charger is ~\$35.00 and 1600 maH Ni-MH batteries are 4 - \$18.00.

They have a travel charger on sale, model #23-034 for \$14.99. It comes with 4 - 1500 maH Ni-MH batteries and a DC cord.

It will charge 2 or 4 "AA" or "AAA" batteries from any 12 VDC 700 ma source in 2 hours.
Uses a coaxial power connector, standard 2.5 mm, I think

I bought 2 and got 8 batteries, 2 chargers, and 2 DC cords for less than just the 2 - 4 packs of batteries.

Took-em home, hooked-em up to the station 13.8 volt power supply and charged both sets of batteries.
Even charged up 2 600 ma Ni-MH batteries I had sitting around.

I'll be trying the batteries in the K1 this week.

I may try the chargers with my solar panel and see how that works.

No company affiliation, just an occasionally satisfied customer.

73 - Dave

=====
Dave Redfearn, ARS N4ELM, McKinney, TX
Email: n4elm@NOJUNKhome.com (to reply, remove NOJUNK)
QRL? de N4ELM/qrp

Date: Sun, 26 Aug 2001 20:45:44 -0700
From: "Ronald Smith" <ronald@atdial.net>
To: qrp-1@lehigh.edu
Subject: [105843] Electronics Design Tools

Message-ID: <200108270345.XAA22809@betelgeuse.concentric.net>

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Group;

I was checking out the Amateur Rocketry Links Library web page and found links to some electronics design tools. Some on the list may find it worth a look. Go to:

<http://users.cybercity.dk/~dko7904/linklib.htm>

Click on Software near the top of the page and have a look.

73,

Ron, KE6RS

Date: Sun, 26 Aug 2001 23:46:10 +0100

From: "Mike Pupeza" <mpupeza@sympatico.ca>

To: "QRP-L" <qrp-l@lehigh.edu>

Subject: [105844] Identify this component - please!

Message-ID: <000f01c12e80\$e95d9340\$7badacce@pupeza>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi;

HELP!

In fixing my Humminbird LCR2000 Depth Sounder/Fish Finder, I replaced this item with a 220 ohm resistor, and it seems to work.

A 1/8th Watt resistor looking thing with the colours of BLUE, GREY, GOLD, GOLD!

It provided power, from a controlled 12V source, to one end of the output transformer for the transducer.

The other end of that primary went to the Drain of a Power FET with the Source to ground. The Secondary windings went to the transducer.

The 'resistor' was open so I have no idea what it was. My manuals don't show that colour combination for a resistor. On the ADE tester it didn't show as a capacitor, nor an inductor!

WHAT IS IT? (And the colours are accurate - there is NO burn discolouration)

Mike VE3EQP....>

Date: Sun, 26 Aug 2001 20:55:19 -0700
From: Robert Wright <rwright@soml.com>
To: qrp-l@lehigh.edu
Subject: [105845] Station Activities August 2001
Message-ID: <200108270352.f7R3qYU11671@buzz.sonic.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dear QRP-L Gang,

Just finished the Emtech 30 mtr transceiver and having great fun with the rig. The receiver is very hot and with the audio filter unit added, it really digs the weaker signals outta the noise and gives full copy. I am using a low antenna 44 ft inverted vee fed with 450 ohm ladderline and worked Tucson and Puyallap so far. Now to build the ScQRPion Stinger Singer Frequency Counter! Tuna Tin 2 on the way for this fall's 40 meter activity. Ain't life great with QRP?

Usual disclaimers re Emtech and all. I think this 30 mtr rig might give me the courage to build one of the Elecraft K2 units. Any advice from K2 builders appreciated. In the meantime, look for my 5 watts around 10.116 mHz!

VY 72,
Bob K7RRW
Santa Rosa, CA
Norcal#201

Date: Sun, 26 Aug 2001 21:29:14 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [105846] CQC Summer QSO Party, K7FD results
Message-ID: <F246kIMIQD525Hg09IX00010cb1@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Started sharp at 1800Z, 20m. Not a lot of activity but the band sounds fair. Work a few...then switch to 15m and find some strong sigs from Colorado, namely N0UR. Work a few more...then take a nap! After snoozing from 1930 to

almost 2300Z (we take long naps in Oregon) I find a flurry of stations on 20m. Bottom line: 42 qso's, 15 sections, 10 CQC members...had fun!

73 John K7FD

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Mon, 27 Aug 2001 09:36:25 -0700
From: Thomas Kuehl <ac7a@gci-net.com>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [105847] Update on FS QRP and other radio items
Message-ID: <3B8A7709.CEC5854F@gci-net.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Howdy,

The following items have been spoken for:

- 3) Paddlette paddle
- 4) Yaesu microphone
- 5) Roller inductor
- 7) Magnacraft T/R relay
- 8) Dow-Key T/R relay
- 10) Neophyte Receiver
- 12) Book - Antennas and techniques for low-band DXing
- 13) 1999 ARRL Handbook
- 15) VHF UHF Handbook

All other items not listed here are still available.

Thanks to all for their interest.

Thomas - AC7A

Date: Sun, 26 Aug 2001 22:06:59 -0700
From: lhlousek <lhlousek@nvbell.net>
To: n4elm@home.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105848] Re: Ni-Cd/Ni-MH charger at Radio Shack
Message-ID: <020701c12eb6\$1a120a40\$650dfea9@nvbell.net>

MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

<<1600 maH Ni-MH batteries are 4 - \$18.00. (@ Radio Shack)>>

I was in K-Mart today and saw that they had Rayovac 1600 mAH NiMH AAs at 4 for \$10.99. Couldn't find and chargers though.

Lou

Date: Sun, 26 Aug 2001 22:09:06 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: n4bp@yahoo.com, qrp-1@Lehigh.EDU
Subject: [105849] Re: CQC Summer QSO Party, K7FD results
Message-ID: <F125d5kZxXCj303wxNa00001b9a@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Yep, sure enough. Starting to slip cogs here... ;)

Also worked Jim (in MN!) on qrp SSB today on 20m and 15m...good sigs, too...almost like he was in Colorado! :)

73 John K7FD

>
>--- N7SG K7FD <k7fd@hotmail.com> wrote:
> > Work a few...then switch to 15m and find some strong sigs
> > from Colorado,
> > namely N0UR. Work a few more...then take a nap! After
> Jim is in MN, had the pleasure of visiting him last month
> when we drove to MN to pick up a new camping trailer. :-)
>
>=====
>73, Bob Patten, N4BP Plantation, FL

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Mon, 27 Aug 2001 00:15:08 -0500
From: "Dennis Payton" <dpayton@fwi.com>
To: <qrp-l@Lehigh.EDU>
Subject: [105850] Re: Measuring Tape Antenna Question
Message-ID: <007e01c12eb7\$4fe22c80\$b0a854d1@locke>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've come to the conclusion that my 100' measuring tape antenna idea was a poor one. I lose about half of my power going through the coil and don't want to scrape paint off the tape or reverse it.

The rolled-up tape's inductance measures 1.8 mh. I wasn't able to measure the capacitance and wasn't interested enough to attempt calculating it.

Thanks to everybody who commented.

Denny N9JXY

Date: Mon, 27 Aug 2001 01:31:51 -0400
From: Pete Burbank <plburbank@kih.net>
To: mpupeza@sympatico.ca, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105851] Re: Identify this component - please!
Message-ID: <5.0.2.1.0.20010827012603.00a925c0@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Why not ask Hummingbird/

Date: Sun, 26 Aug 2001 22:52:08 -0700
From: Beth Gardner / Dan Maguire <bethdan@pacbell.net>
To: qrp-l@Lehigh.EDU
Subject: [105852] Re: Antenna sum-up -long
Message-ID: <000301c12ebc\$69e48d80\$a89daa40@bethdan>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Hi Karl,

I too have been playing around with MMANA ... what a great tool! Just a couple of comments concerning your post.

1. Yes indeed, there were some ISP problems with the previous home for MMANA. It now has a new home at
<http://www.qsl.net/mmhamsoft/mmana/>

2. Be careful when using MMANA (or any Mininec-based modeling package) to get the feedpoint impedance for antennas with relatively low horizontal wires, say lower than about 0.2 wavelengths. When you specify "real" ground in Mininec, that affects only the far field calculations (gain and pattern). The feedpoint impedance is calculated as if the ground were perfect.

I ran a little test between MMANA (Mininec-based) and EZNEC (NEC2-based). In MMANA, I used the DP20.MMA model in the HF Simple folder. (Total wire length 10.4 meters, wire radius 1.0 mm.) At 14.05 MHZ, using the "Real" option for ground with parms of 13 and 5 (Dielectric constant and Conductivity), and setting the height to 3 meters, I got a feedpoint Z of about 42+j37 ohms. Using "Perfect" ground the feedpoint Z was exactly the same (as expected), although the Gain and F/B numbers changed a bit.

Then I switched to EZNEC. Starting with the BYDipole.ez model, I modified the model to be as close to the MMANA model as possible. (Same frequency, same wire dimensions and height, same ground characteristics, similar number of segments, same kind of wire loss, etc.) Even though EZNEC is NEC2-based, it has an option to simulate Mininec type ground. (That is, use real ground for the gain and pattern but perfect ground for the feedpoint Z.) Sure enough, that EZNEC model gave a feedpoint Z of 41+j42, pretty dang close to MMANA.

Then I re-ran the EZNEC model, but this time specified "High Accuracy" instead of "Mininec" for the "Real" ground type. Now the feedpoint Z was 62+j26 ohms, a pretty substantial difference from MMANA's 42+j37. The "High Accuracy" option in EZNEC uses "real" ground for -both- the far field -and- the feedpoint Z calculations. (And BTW, the gain numbers come out a little lower too, but that's another story.)

The difference is not as great when the antenna is higher above ground. For a height of 10 meters instead of 3 meters, MMANA gave 75-j16 ohms, EZNEC w/"Mininec" type ground gave 76-j12 ohms, and EZNEC w/"High Accuracy" type ground gave 73-j4 ohms.

You can play with this yourself using the free EZNEC demo program available at www.ez nec.com. The free demo is limited to a max of 20 segments, but that's fine for simple antennas. (In my case the MMANA model had 18 equal length segments, and I set the EZNEC model to use 19 segments.) If you play around with EZNEC keep the following points in mind:

- a. You can set the wire x,y,z dimension units in EZNEC to be meters (like MMANA), but the wire size is entered as the *diameter* in millimeters (or an awg size). In MMANA, the wire size is specified as the *radius* in millimeters. The MMANA model had a wire radius of 1.0 mm, so I set the EZNEC model to 2.0 mm diameter.
- b. Real ground conductivity is set in mS/m units in MMANA but in S/m units in EZNEC. Ground parms of 13 and 5 in MMANA correspond to 13 and 0.005 in EZNEC. (And the two parms are set in reverse order.)
- c. In order to get the source placed exactly in the middle of a wire, in MMANA you have to specify an even number of segments (or set the segment count to 0 to let MMANA do automatic segmentation). In EZNEC you have to specify an odd number of segments in order to get the source exactly in the middle.

This stuff sure is fun to play with!!!

73,
Dan AC6LA

Date: Mon, 27 Aug 2001 00:01:42 -0700 (PDT)
From: "Robert P. Okas" <vintage@best.com>
To: Mike Pupeza <mpupeza@sympatico.ca>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105853] Re: Identify this component - please!
Message-ID: <Pine.BSF.4.21.0108262357130.10983-100000@shell114.ba.best.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Mike,

This sounds like a 6.8 Ohm resistor, which would make sense for the application. I'm not sure what you mean by "my manuals don't show that color combination for a resistor." The gold band adjacent to the gray is the multiplier, in this case 0.1. The second gold band indicates a 5% tolerance. Just curious, are there any silver bands on the device?

73,
Bob - W3CD

On Sun, 26 Aug 2001, Mike Pupeza wrote:

> Hi;
> HELP!
> In fixing my Humminbird LCR2000 Depth Sounder/Fish Finder, I replaced this

> item with a 220 ohm resistor, and it seems to work.
> A 1/8th Watt resistor looking thing with the colours of BLUE, GREY, GOLD,
> GOLD!
> It provided power, from a controlled 12V source, to one end of the output
> transformer for the transducer.
> The other end of that primary went to the Drain of a Power FET with the
> Source to ground. The Secondary windings went to the transducer.
> The 'resistor' was open so I have no idea what it was. My manuals don't show
> that colour combination for a resistor. On the ADE tester it didn't show as
> a capacitor, nor an inductor!
>
> WHAT IS IT? (And the colours are accurate - there is NO burn discolouration)
>
> Mike VE3EQP....>
>
>

Date: Mon, 27 Aug 2001 00:14:33 -0700
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>,
<mpupeza@sympatico.ca>
Subject: [105854] Re: Identify this component - please!
Message-ID: <001901c12ec7\$ee17eec0\$d298b2d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Mike,

So how do we classify this as QRP Hi Hi ;-) Well, sounds like either a burnt
out inductor or a .68 Ohm resistor. I'd check with the manufacturer.

73
Trev
KG6CYN

----- Original Message -----
From: Mike Pupeza <mpupeza@sympatico.ca>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Sunday, August 26, 2001 3:46 PM
Subject: Identify this component - please!

> Hi;

> HELP!
> In fixing my Humminbird LCR2000 Depth Sounder/Fish Finder, I replaced this
> item with a 220 ohm resistor, and it seems to work.
> A 1/8th Watt resistor looking thing with the colours of BLUE, GREY, GOLD,
> GOLD!
> It provided power, from a controlled 12V source, to one end of the output
> transformer for the transducer.
> The other end of that primary went to the Drain of a Power FET with the
> Source to ground. The Secondary windings went to the transducer.
> The 'resistor' was open so I have no idea what it was. My manuals don't
show
> that colour combination for a resistor. On the ADE tester it didn't show
as
> a capacitor, nor an inductor!
>
> WHAT IS IT? (And the colours are accurate - there is NO burn
discolouration)
>
> Mike VE3EQP....>
>

Date: Mon, 27 Aug 2001 03:36:27 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu, nwq-1@scn.org
Subject: [105855] Stealth flagpole antenna
Message-ID: <49.1003bd9a.28bb527b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Stumbled across a COMMERCIAL stealth antenna part of an actual flagpole from
IAC--Alan KB7MBI

<http://www.iacantennas.com/stealthbazooka2000.htm>

Date: Sun, 26 Aug 2001 23:49:44 -0800
From: Jim Larsen AL7FS <AL7FS@pobox.alaska.net>
To: dpayton@fwi.com, "qrp-1@lehigh.edu" <qrp-1@lehigh.edu>
Subject: [105856] Measuring Tape Antenna de AL7FS
Message-ID: <3B89FB98.4D0309C9@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings from Alaska,

I still use a measuring tape antenna (as well as my SLV/MMA) when I go out in the motorhome. I have one made out of two 50 foot tape measures. You can remove some of the screws (alternate corners) and fasten the two tape measures together with longer bolts. Then you just fashion a method to mount the S0239. Mine is made of leather. I have seen a better model made of bent aluminum with nice camping grommets banged into the hang-up hole. The two alligator clips come off the S0239 with quality wire and once the length of each side of the antenna is correct, you clip the alligator clips onto the edges of the tape. Not the flat. Also, a piece of leather (or whatever) keeps the thing from unwinding. Good for 40-10 (maybe even 6 and 2) meters. A bit of thought will allow a creative solution to all aspects of this one. I would imagine you could make clip-on wires to extend to 80 mtrs.

The formula for the length to use (approx.) is:

$((468 / \text{freq in MHz}) - 1.5) / 2 = \text{length for one side of the tape measure.}$

e.g., for 7.040 $((468 / 7.040) - 1.5) / 2 = 32.5 \text{ feet per side.}$

This seems to work well enough to use without tweaking if I have no tuner. Your mileage may vary and a bit of playing around on one weekend will give you all the data you need to figure out your own formula if it needs to be different.

These tape measure antennas work fine but do not like really severe winds. I used one out on the Iditarod Trail when I was the radio operator for the checkpoint in Shaktoolik (check it out on a map). A full blown Arctic storm finally stressed the metal until it broke. (Yes, I had several backup antennas but putting them up in snow and a wind I could not stand up in was another story.)

Good luck.

73, Jim, AL7FS

=====

Date: Mon, 27 Aug 2001 08:11:36 -0400
From: "Mark J. Dulcey" <mark@buttery.org>
To: mightymik2@home.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105857] Re: OT - Dish antennas?

Message-ID: <3B8A38F8.3080206@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Mighty Mik wrote:

> I don't know what the bottom frequency is that will give you gain, but
> i'll bet there is someone on list that can.

There really isn't any bottom frequency where you get gain from a dish - not an offset dish, in any case. (A center-fed dish has the problem that the feed blocks more and more of the dish as you go lower in frequency.) But you get less gain at lower frequencies; eventually you reach a point where it's much easier to get the same amount of gain in other ways. For the most part, dish antennas aren't worth considering for frequencies under 1 GHz, and a DBS dish probably isn't worth the effort on 1.2 GHz.

There is a UPPER frequency where you get gain from any given dish - it's determined by the accuracy of the curve of the dish. (Mesh dishes are also limited by the closeness of the mesh; solid dishes like the DBS antennas don't have that limitation.) DBS dishes are manufactured for the Ku band (12 GHz), so they have to be made to quite close tolerances; they'll work nicely on all ham bands through 10 GHz, but might not be good for higher bands.

A DBS dish combined with a really good LNA (you'd need an NF well under 1dB) might have enough gain to receive the A0-40 downlink. I haven't heard of anyone trying that yet, though.

Date: Mon, 27 Aug 2001 06:17:39 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Beth Gardner / Dan Maguire <bethdan@pacbell.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105858] Re: Antenna sum-up -long
Message-ID: <Pine.LNX.4.33.0108270555400.1208-100000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Thanks Dan. I really wanted a 1-1 comparison of nec2 to mininec and you provided exactly what I would have done. As expected the source impedance is different when the antenna is close to a real ground. I will take what I get from MMANA with a grain of salt when the antenna is low. Too bad because in real life most Ham antennas are low/

I think the main point is that MMANA is such nice easy to use software that it is better for a Ham to start out with. The way you enter data is slick and it's real easy to modify your design. It's just a fine system and it's too bad the author didn't use the nec2 engine.

On nec2, it was written in fortran and I'm having a lot of trouble getting a unix fortran to C converter that will run on my version. I need to get the source code and compile it on my system. Working on this.

On Sun, 26 Aug 2001, Beth Gardner / Dan Maguire wrote:

> Hi Karl,
>
> I too have been playing around with MMANA ... what a great tool! Just a
> couple of comments concerning your post.
>
> 1. Yes indeed, there were some ISP problems with the previous home for
> MMANA. It now has a new home at
> <http://www.qsl.net/mmhamsoft/mmana/>

Glad there is another source out there. I found MMANA from a search by Google but could not find it again. I heard from a guy in Korea that got it from my web page. It must work...:-)

>
> 2. Be careful when using MMANA (or any Mininec-based modeling package) to
> get the feedpoint impedance for antennas with relatively low horizontal
> wires, say lower than about 0.2 wavelengths. When you specify "real" ground
> in Mininec, that affects only the far field calculations (gain and pattern).
> The feedpoint impedance is calculated as if the ground were perfect.

snip..

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Mon, 27 Aug 2001 08:26:29 -0400 (EDT)
From: "John L. Sielke" <w2agn@pobox.com>
To: n4so@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105859] RE: DC Voltatge Booster
Message-ID: <XFMail.20010827082629.w2agn@pobox.com>

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

That's the article I was remembering. I can't believe it was that long ago!

Oh well.

John W2AGN

On 27-Aug-2001 n4so@juno.com wrote:

> Sam Ulbing, N4UAU, My All-Purpose Voltage Booster, QST July 1997, page 40
>
> page 42 has design details
>
> LM2587 is the switching regulator
> When the article came out, a PC board and parts was available.
>
> Ken Brown-N4SO
> Mobile, AL EM50tk
> NC-20 at 5 watts and 4 ele. yagi
>

Date: Mon, 27 Aug 2001 09:01:59 -0400
From: "Tim A. King Jr." <iflyos@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [105860] Re: FREEBIE EXCHANGE
Message-ID: <F2089dm5UxP9Fekzabt000130b2@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Guys,

I just wanted to throw in my appreciation also. I to have been fortunate enough to be on the receiving end of what makes Ham radio so great. As a newly licensed ham (less than 6 months) I am fortunate to have a couple of great Elmer's who have been most generous with their knowledge and equipment.

Henry, N4VHK, has helped me a lot with operating guidance, and made it possible for me to purchase my TS-930SAT at an incredible price. He has also given me some unused "pieces-parts" as well.

Gene, WB4MSG, (also the father of my YL) has introduced me to his daughter, for which I will never be able to thank him enough. (Wedding next fall..but that's another topic.) He has also opened his shack and workshop to me, telling me "If you need parts or cabinets, etc., don't buy anything till you

see if I have it first."

In turn, I have helped several new (newer than I) Hams get their stations set up, built and given copper pipe J-poles and portable j-poles to these guys, built a few "tape measure beams" and helped put them up.

I just want to say that it's nice to see that Amateur Radio isn't full of the "OF's" we read so much about on some of the websites. Although I don't have a huge supply of parts or old ARRL manuals or such, I hope one day to be able to make offers like I have seen the rest of you guys do here on this list. Keep up the good work!!!

72/73,

Tim A. King, Jr.
KG4MQD
Safety Officer, Hobby Park R/C Aircraft Club
Winston Salem, NC
AMA# 578668

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Mon, 27 Aug 2001 09:22:30 -0400
From: "Ronald C. McConnell" <rcmcc@earthlink.net>
To: "QRP-L" <qrp-l@lehigh.edu>, "NJQRP" <njqrp@njqrp.org>
Cc: <w2agn@pobox.com>, <w2iol@arrl.net>
Subject: [105861] Re: DC Voltage Booster
Message-ID: <000001c12efb\$53f1a960\$9e16a441@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

N4AUA has a 6.5 to 12Vdc IN/13.9 Vdc OUT, 3A booster.

<http://n4uautoo.home.sprynet.com>

that's close to what you need.
You might be able to tweak it for 16 to 18V out.

If you need lots of power, check

the 13.8Vdc, 20A booster from

<http://www.fastq.com/~w4rry>

73,

Ron McConnell
w2iol@arrrl.net

Date: Mon, 27 Aug 2001 08:27:42 -0500
From: kcieslak <kcieslak@execpc.com>
To: qrp-l@lehigh.edu
Subject: [105862] Old P.S. Getting Tired
Message-ID: <3B8A4ACE.DB4E6E37@execpc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have a Pyramid 20 Amp PS that I ve been using for around 10 years and lately its seems that that the old girl will only give me 10-12 amps and generates quite a hum in the radio when I transmit at a high power. I can't get full power cuz the PS folds back and the radio shuts down when I key. I replaced the 723 regulator and re-seated all the different stab-on connectors used to make internal connections inside the supply and that seemed to help me squeeze out an extra amp or two. I did notice that when I key the rig the voltage goes from 13.8 to 12.8 volts. There are 4 pass transistors in the P.S. that I haven't replaced yet. I haven't checked any caps yet. Note: This has been a gradual deterioration not a sudden occurance. any suggestions before I start surgery???

Brian K9WIS

Date: Mon, 27 Aug 2001 08:40:57 -0500
From: "Dennis Payton" <dpayton@fwi.com>
To: "Jim Larsen AL7FS" <AL7FS@pobox.alaska.net>
Cc: <qrp-l@Lehigh.EDU>
Subject: [105863] Re: Measuring Tape Antenna de AL7FS
Message-ID: <000a01c12efd\$e8419420\$96a854d1@locke>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

>you clip the alligator clips onto the edges of the tape. Not
>the flat

Hi Jim,

I hadn't considered that. Then I can make connections up & down the tape without scraping paint off of it everywhere. And it would provide a much more solid connection.

Thanks! Denny N9JXY

Date: Mon, 27 Aug 2001 01:43:30 -0400
From: "ZOOM" <kandrparker@sympatico.ca>
To: <kcieslak@execpc.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105864] Re: Old P.S. Getting Tired
Message-ID: <002b01c12ebb\$35fe39e0\$3294fea9@robertparker>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sure sounds like leaky Caps!
I say this because you mentioned the hum and that the voltage drops when loaded. Prime candidates for leaky capacitors. You can do a leak test on the caps and that would confirm suspicions!

Regards,
Robert
VE3RPF

----- Original Message -----
From: "kcieslak" <kcieslak@execpc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, August 27, 2001 9:27 AM
Subject: Old P.S. Getting Tired

> I have a Pyramid 20 Amp PS that I ve been using for around 10 years and
> lately its seems that that the old girl will only give me 10-12 amps and
> generates quite a hum in the radio when I transmit at a high power. I
> can't get full power cuz the PS folds back and the radio shuts down when
> I key. I replaced the 723 regulator and re-seated all the different
> stab-on connectors used to make internal connections inside the supply

> and that seemed to help me squeeze out an extra amp or two. I did notice
> that when I key the rig the voltage goes from 13.8 to 12.8 volts. There
> are 4 pass transistors in the P.S. that I haven't replaced yet. I
> haven't checked any caps yet. Note: This has been a gradual
> deterioration not a sudden occurrence. any suggestions before I start
> surgery???

>

> Brian K9WIS

Date: Mon, 27 Aug 2001 10:07:08 -0400
From: "w8diz" <w8diz@fpqrp.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105865] Re: Old P.S. Getting Tired
Message-ID: <00e201c12f01\$8fb39bb0\$39d81b41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "ZOOM" <kandrparker@sympatico.ca>
Sent: Monday, August 27, 2001 1:43 AM

> Sure sounds like leaky Caps!
> You can do a leak test on the caps and that would confirm suspicions!

I wanna know how you do a leak test :)

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
Clermont County - EM79uf - near Cincinnati; 39.218N - 84.305W
SOC-8 DLQRPAG-1454 ARCI-10226 ARS-781 QRPL-1998 10X-9389 CATT-26
FP#-1 <http://home.cinci.rr.com/w8diz> & <http://kitsandparts.com>

Date: Mon, 27 Aug 2001 09:26:23 -0500
From: n4so@juno.com
To: qrp-1@lehigh.edu
Subject: [105866] OT- cellular phone beam antennas
Message-ID: <20010827.092623.10702.4.N4S0@juno.com>

Cellular phones are qrp -- question is -
Where can I buy a cellular phone yagi beam?
House is out in the country away from a tower.

Ken Brown-N4SO
Mobile, AL EM50tk
NC-20 at 5 watts and 4 ele. yagi

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 27 Aug 2001 10:28:28 -0400
From: Mike Pupeza <mpupeza@sympatico.ca>
To: <qrp-1@lehigh.edu>
Subject: [105867] Re: Identify this component - please!
Message-ID: <B7AFD14B.7DEA%mpupeza@sympatico.ca>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Enough, Thanks Guys!
It seems to be a 6.8 ohm 5% resistor.
Normally I wouldn't have trouble with this, but, I grabbed my Doug DeMaw1988
ARRL Data Handbook and looked at the Component Color Code Table 2-1 on page
2-2. That's why I wasn't sure of the value. That table is WRONG!
It doesn't show that Gold and Silver have any Multiplier Values. It shows
GREY as 0.01 and WHITE as 0.1.
I kid you not!
I looked at my other references and got straightened away.
The ARRL Handbooks show the correct values and I am surprised that this
slipped into print!
Thanks to all who helped out on this slightly OT post!
Mike VE3EQP....>

Date: Mon, 27 Aug 2001 10:41:36 -0400
From: "Juan Ferrari" <puntrad@usa.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105868] Re: HTX-100
Message-ID: <027e01c12f06\$5fb744c0\$5e35f2d8@juan>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Tnx very much to all who answer my question. I will try getting the manual from RS. If I can't get it from them I'll accept the offers of a copy.
AGN TNX es 72
Juan - KG4FSN

Date: Mon, 27 Aug 2001 08:57:00 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: kcieslak <kcieslak@execpc.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105869] Re: Old P.S. Getting Tired
Message-ID: <Pine.LNX.4.33.0108270855300.1728-100000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

If you can afford the cost, get the MFJ switcher 30 amp supply. It's so light you can pick it up with one hand, and no birdies in your receiver.

On Mon, 27 Aug 2001, kcieslak wrote:

> I have a Pyramid 20 Amp PS that I ve been using for around 10 years and
> lately its seems that that the old girl will only give me 10-12 amps and
> generates quite a hum in the radio when I transmit at a high power. I
> can't get full power cuz the PS folds back and the radio shuts down when
> I key. I replaced the 723 regulator and re-seated all the different
> stab-on connectors used to make internal connections inside the supply
> and that seemed to help me squeeze out an extra amp or two. I did notice
> that when I key the rig the voltage goes from 13.8 to 12.8 volts. There
> are 4 pass transistors in the P.S. that I haven't replaced yet. I
> haven't checked any caps yet. Note: This has been a gradual
> deterioration not a sudden occurance. any suggestions before I start
> surgery???

>

> Brian K9WIS

>

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: 27 Aug 2001 10:58:51 EDT
From: Edwin Lappi <ae4ec@usa.net>
To: qrp-1@Lehigh.EDU
Subject: [105870] FS-HW-8 and Ten Tec Argosy
Message-ID: <20010827145851.24363.qmail@aw163.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

I am clearing Shack of un-used items.

First - Heath HW-1, HWA-7-a PS, Homebrew 20 watt amp built according to Amateur Handbook, Homebrew antenna tuner according to Handbook. Manuals if I can find them. The whole package for nearest offer to \$140.00=0

Secoind _ Ten Tec Argosy 525, includes cw filter, hand mike, serial number =

0972, manuals - no mods - works great nearest offer to @200.00

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Mon, 27 Aug 2001 15:29:03 -0400
From: Bill Meara <n2cqr@clix.pt>
To: qrp-1@lehigh.edu
Cc: homebrew@qth.net
Subject: [105871] 17mtr DSB - finishing up
Message-ID: <3.0.6.16.20010827152903.2cb71e16@pop.clix.pt>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Poor band conditions on 17 allowed me to put down the microphone and work on the rig.

Recognizing the inherent shortcomings in the receiver that consists of only 4 transistors and 4 diodes (other than the VX0), I decided to build a switching arrangement that would permit me to go to an external receiver (my trusty Drake 2-B) with the flip of a front panel switch. I used a 3PDT switch and a small relay, and a second switch (to turn on the VX0 for spotting). The circuitry works very well -- when the DC receiver can no

longer handle the QRM, or when the weaker signals get lost in all the noise that is getting through the relatively wide passband of the DC RX, I just throw the INT/EXT RX switch, turn on the VX0, quickly zero beat the 2-B and I'm in business. (Of course, the Drake 2-B died just as I completed the INT/EXT circuit! Thank God I had a spare rectifier tube in the junk box.)

Here's a question for the groups: Am I right in thinking that when the going gets rough (QRN, QRM) the simple DC receiver will simply not be able to compete with a good superhet like the 2-B? I think the passband (and the noise) will always be about double that of the superhet, correct?

Another RX question: I see guys soing to great lengths to shield their DC RX VFOs. I built mine in a PC board box, but I haven't gone to the trouble of bringing in the DC leads through decoupling caps. In fact, I haven't even put the cover on the box yet. The RX seems to be working fine. Any sense in going to a lot of effort to button this thing up?

As for my AF amp problems, after many failed attempts to add additional AF amplification, I came across an article in QQ that discussed the big differences in sensitivity among HI-Z headphones. This prompted me to reach into the junk box and experiment. I found a set of old military headphones that were significantly more sensitive than those that I'd been using. So I no longer have a need for more amlification. (I'd given up on the idea of having a speaker in the cabinet. If I want to listen on a speaker I can just switch to the 2-B.) With the high sensitivity phones, I needed to turn down the AF gain -- so I put a 10k pot between the output of the 100 db pot and the headphones. (I didn't want to invite feedback by putting the long leads at the input to the AMP.)

My problem with the overload of the AF amps by mixer products beyond the audible range seems to have been reduced significantly by turning back the RF gain to minimal levels. Jake, N4UY, is sending me some 88mh toroids. I'll try these in the diplexer circuit to see if some additional low pass AF filterng will help.

Here's a TX question: Why did Doug Demaw use a balanced modulator with only 2 diodes? Wouldn't he have gotten better carrier surpression with a 4 diode arrangment? Could it been that it wouldn't have had much effect on the signal? (My carrier surpression doesn't seem to be that great -- I can see about 250 mw of carrier when I push the PTT down. Output PEP is probably 5-8 watts.)

I put the rig in an old Bud cabinet and used the bottom of a cake pan as the front panel. I think it looks pretty good. Pictures on my web site. Please let me know what you think.

Date: 27 Aug 2001 11:30:35 -0400
From: Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
To: kcieslak@execpc.com
Cc: qrp-l;;
Subject: [105872] Re: Old P.S. Getting Tired
Message-ID: <2001Aug27.113035-0400@[130.113.234.7]>

Brian,

Your attempts at troubleshooting are along the right path. A gradual decline like this often results from resistance (oxidation) creeping into one or more connections.

Another possibility is that one or more of the four series-pass transistors has failed, or one of the emitter ballasting resistors (a fraction of an ohm usually) have opened up.

If the transistors are in sockets, re-seat them too.

And go back, looking for more screw or spade connectors, looking for oxidation or signs of heat.

On the big honkin' electrolytics, go thru each terminal, rescrewing the + and - connecting screws - I've seen trouble here, because the electrolytic posts are ALUMINIUM, while the wires and spades connecting to them are brass, or copper or tinned copper.

In <3B8A4ACE.DB4E6E37@execpc.com>, kcieslak wrote:

>I have a Pyramid 20 Amp PS that I ve been using for around 10 years and
>lately its seems that that the old girl will only give me 10-12 amps and
>generates quite a hum in the radio when I transmit at a high power.

Date: 27 Aug 2001 11:44:11 EDT
From: Edwin Lappi <ae4ec@usa.net>
To: qrp-l@Lehigh.EDU
Subject: [105873] cosmetics on argosy
Message-ID: <20010827154411.27561.qmail@aw163.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

I accidentally deleted the request from someone concerning the cosmetics on the argosy I have for sale - the case on top has some minor scatches but the front face is scatch free.

Ed, AE4EC

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Mon, 27 Aug 2001 10:08:00 -0700 (PDT)
From: Norman Young <norman_y@yahoo.com>
To: qrp-1@lehigh.edu
Subject: [105874] Re: Portable SWL RX on Sale
Message-ID: <20010827170800.67270.qmail@web11606.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Bob,

I bought one of the T-kit external BFO kits for use with a 12 year old Sony 7600. I got the radio while in Saudi Arabia during Desert Storm, and the models sold in SA did not come with SSB/CW receive capability. Thier tuning range is limited to 25 MHz, too.

The IF for that particular model is 455 kHz, and the t-kit oscillator checked out as being reasonably stable. However, I have had only limited success using it with the Sony for the same reason as you. The BFO has to be fined tuned for every signal. Of course, the wide bandwidth doesn't help. Even under the best conditions, I can hear more than one CW station at the same time.

72,
Norman
KA4PUV

From: Bob [[SMTP:ara1@trsvr.tr.unisys.com](mailto:ara1@trsvr.tr.unisys.com)]
Sent: Friday, August 24, 2001 7:03 AM
To: Low Power Amateur Radio Discussion
Subject: Re: Portable SWL RX on sale!

Has anyone sucessfully added an external bfo to any the the cheaper receivers to copy cw or ssb? I used the Ten-Tec bfo kit with my Radio Shack DX-399 and had poor results. The bfo needed to be readjusted for every signal.

73, Bob K3QXH

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Make international calls for as low as \$.04/minute with Yahoo! Messenger

<http://phonecard.yahoo.com/>

Date: Mon, 27 Aug 2001 13:01:38 -0400

From: "Mike Yetsko" <myetsko@insydesw.com>

To: <n4so@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [105875] Re: OT- cellular phone beam antennas

Message-ID: <005501c12f1a\$9290c1a0\$0600a8c0@dad>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

A place called 'EveryThing Wireless' has had them in the past, but I don't know about now. I looked into one at one point, but just as I was about to buy, CellOne activated a tower that turned out to be within sight of my house!

I think they are about \$40.

They used to be at www.everythingwireless.com but now they merged into something else and are 'roxy' or something like that. Anyway, it's a place to start.

Mike

----- Original Message -----

From: <n4so@juno.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Monday, August 27, 2001 10:26 AM

Subject: OT- cellular phone beam antennas

> Cellular phones are qrp -- question is -
> Where can I buy a cellular phone yagi beam?
> House is out in the country away from a tower.
>
> Ken Brown-N4S0

> Mobile, AL EM50tk
> NC-20 at 5 watts and 4 ele. yagi
>
>
> -----
> GET INTERNET ACCESS FROM JUNO!
> Juno offers FREE or PREMIUM Internet access for less!
> Join Juno today! For your FREE software, visit:
> <http://dl.www.juno.com/get/tagj>.
>

Date: Mon, 27 Aug 2001 17:48:56 -0400
From: Bill Meara <n2cqr@clix.pt>
To: qrp-1@lehigh.edu
Cc: homebrew@qth.net
Subject: [105876] 17mtr DSB -- 000PS forgot URL
Message-ID: <3.0.6.16.20010827174856.2e5f3b7c@pop.clix.pt>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Actually it was the software's fault. Forgot to attach the sig.

The URL for my Web Site:

<http://planeta.clix.pt/n2cqr>

Thanks!
73 de CU2JL (aka N2CQR)
Bill Meara
Sao Miguel Island,
The Azores, Portugal
<http://planeta.clix.pt/n2cqr>

Date: Mon, 27 Aug 2001 12:58:09 -0500
From: Darrel Swenson <k0awb@tcon1.com>
To: n4so@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105877] Re: OT- cellular phone beam antennas
Message-ID: <3B8A8A31.C80EB979@tcon1.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ken...

If you are using a 3 watt analog phone (bag phone or installed mobile) legally you can't... Cell Phones are limited to 5 watts ERP. Trying to use one with a digital portable may cause other problems with chip delay (propagation delay)... because you are too far from the site.
I'd try to find a carrier with a site closer to your house.

72... Darrel... KOAWB

n4so@juno.com wrote:

>
> Cellular phones are qrp -- question is -
> Where can I buy a cellular phone yagi beam?
> House is out in the country away from a tower.
>
> Ken Brown-N4SO
> Mobile, AL EM50tk
> NC-20 at 5 watts and 4 ele. yagi
>
> -----
> GET INTERNET ACCESS FROM JUNO!
> Juno offers FREE or PREMIUM Internet access for less!
> Join Juno today! For your FREE software, visit:
> <http://dl.www.juno.com/get/tagj>.

Date: Mon, 27 Aug 2001 11:00:08 -0700 (PDT)
From: Allen Jones <w9dz@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [105878] Lower Price on FT-817
Message-ID: <20010827180008.81134.qmail@web14605.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I see that Yaesu has a special going on the FT-817 through the end of September. \$100 off the regular price. Some of the mail order outfits are now under \$650 including shipping.

No help for me as I paid the old price. :-(

73,

Allen Jones, W9DZ

Do You Yahoo!?

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Date: Mon, 27 Aug 2001 11:00:42 -0700
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L <QRP-L@lehigh.edu>, azqrp <azqrp@extremezone.com>
Subject: [105879] Contest: CQC Contest Results - K7RE
Message-ID: <3B8A8ACA.A272AB02@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gangue:

Well, the conditions for the Sunday CQC Summer Sprint were better than for BUBBA the day before, but not by too much. Rough going most of the time.

I managed to work:

Unique first name multipliers : 12
QSO Points X SPC's X Unique Names + W0CQC Bonus = Total Score
130 X 19 X 12 + 1000 = 30,640

Total Score: 30,640 Points

Got started late due to some other ham radio commitments,
but still enjoyed working the folks who were able to join us.
Put in about 2.5 hours all at the end of the event.
Rig: K-2 @ 5W with 3 element tribander at 35 feet, 40M delta loop on 40.
Used QRPDUPÉ software to log, score and send CW.
Thanks to the FB folks at CQC for throwing this contest.

Brian K7RE

Date: Mon, 27 Aug 2001 14:07:26 -0400
From: David Beach <dbeach@blvl.igs.net>
To: <qrp-l@lehigh.edu>
Subject: [105880] Re: OT- cellular phone beam antennas
Message-ID: <B7B0049E.3FD%dbeach@blvl.igs.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"

Content-transfer-encoding: 7bit

I did a search a while ago using google to look up what I could make in the way of a cellular yagi or quagi. I did find a few sites with plans - but never did build anything!! There were also some 'hits' for places selling cellular yagis but I was not interested in buying.

Try a google search. I did not keep the URLs of the sites I visited but it was an easy search as I recall.

David Beach
VE3STI

Date: Mon, 27 Aug 2001 14:14:09 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <k0awb@tcon1.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [105881] Re: OT- cellular phone beam antennas
Message-ID: <008601c12f24\$949e1240\$6b01a8c0@INSYDENT>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Ken...
>
> If you are using a 3 watt analog phone (bag phone or installed mobile)
> legally you can't... Cell Phones are limited to 5 watts ERP.
> Trying to use one with a digital portable may cause other problems
with
> chip delay (propagation delay)... because you are too far from the
> site.
> I'd try to find a carrier with a site closer to your house.
>
> 72... Darrel... K0AWB

I don't think that's an issue, or everyone that puts a gain cell antenna on their vehicle would have a problem.

Mike

Date: Mon, 27 Aug 2001 11:18:02 -0700
From: Mighty Mik <mightymik2@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105882] dish feeds
Message-ID: <5.0.2.1.0.20010827111639.00a30c50@mail>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Looks like the feedhorn of choice for 2.4GHz / 802.11b WLAN is...a Pringles can.

Date: Mon, 27 Aug 2001 13:23:24 -0500
From: "James P. Osburn, P.E." <j.p.osburn@ieee.org>
To: "List; QRP, QRP Mailing List" <qrp-1@lehigh.edu>
Subject: [105883] TKIT 1056 on 6 meters
Message-ID: <000501c12f25\$80146440\$84e9a0ce@aaacomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm thinking about modifying a Ten-Tec T-Kit 1056 receiver for 6 meters. This is the one that comes with all the parts for 160 meters to 10 meters, but it doesn't come with the parts for 6 meters. By making the right substitutions I think it will work on 6 meters. Has anyone done this already? What did you do to do it?

Thanks,

Jim, WD9EYB

Reply-To: j.p.osburn@ieee.org

Date: Mon, 27 Aug 2001 14:42:02 -0400 (EDT)
From: "John L. Sielke" <w2agn@pobox.com>
To: qrp-1@lehigh.edu, njqrp@njqrp.org
Subject: [105884] Found Laptop Adapter!
Message-ID: <XFMail.20010827144202.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

Stopped at the local Rat Shack...er, Radio Shack for the politically correct on the way home from golf. They have a Laptop DC adapter, with several different output voltages, up to 24V, from 12V in. Also, it has a BUNCH of different connectors. One even fits my ancient IBM Thinkpad (486/66). Just tried it out, and it works. I couldn't hear any RF noise on 20, 15 or 10. (only bands I checked).

Part # 273-1826 Price \$59.95 (ouch) but does work. Even has nice carrying case.

There, if soembody else buys one, they probably won't even care if I call them Rat Shack ;-)

John W2AGN
(getting ready for BIG QRP Afield, news at 11)

Date: Mon, 27 Aug 2001 13:51:24 -0500
From: "Mike Malone" <mmalone@worldlogon.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105885] Re: Cub Fox Announcement KD5KXF
Message-ID: <003801c12f29\$4599da80\$4800000a@nationwiderecovery.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

KD5KXF, Mike Malone in Balch Springs TX will be your 14.060 ish cub fox tommorow evening. Use standard RST SPC NAME PWR exchange. I will be running a improved antenna system and hope to bust 50 this time! See you guys then. I will be around 14.059-14.062 and listening up or down 1k or less. See you then.

Date: Mon, 27 Aug 2001 15:13:49 -0400
From: "David Porter" <aa3ur@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <njqrp@njqrp.org>
Subject: [105886] Cub Fox Tuesday 2200 Eastern Wednesday 0200Z
Message-ID: <010401c12f2c\$67bb9e20\$927ba8c0@jamison1.pa.home.com>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greetings Fox Hunters,
My last time out was less than exciting for the hounds. I'm looking forward to a better run this time!

Mike Malone (KD5KXF a little SouthEast of Dallas TX) and Dave Porter (AA3UR about 10 miles West of Trenton, NJ) will be your Cub Foxii this Tuesday at 2200 EDST [that is, Wednesday at 0200 UTC] .

I will be operating low between 14.050 and 14.060 +/- QRM and Mike will be high between 14.050 and 14.062, trying to leave 14.058 open for FISTS.

I will be using a DSW-20, a Radio Shack DSP filter, an 88 foot inverted L with a Johnson Matchbox tuned with a NoGa Watt meter, and a Steven Weber Deluxe LCD Keyer set for 11 wpm. Hopefully, there will be good weather and propagation.

The following example uses a call that I held quite some time ago. It belongs to someone else now, but I'll use my old info for this example.

I'll send the obligatory:

CQ FOX CQ FOX DE AA3UR K

or

QRZ FOX DE AA3UR K

Hunters will reply with their call; only once please.

WA4CPN

To which I will respond:

WA4CPN 559 PA DAVE 2W WA4CPN BK

To which WA4CPN would reply:

BK 599 FL DAVE 75W BK

If I missed his state, for instance, I would ask for a fill:

BK SPC? BK

To which WA4CPN would reply:

BK FL FL BK

When I've got the complete exchange, I will respond:

TU QRZ FOX DE AA3UR

Remember, the exchange is:

RST (STATE, PROVINCE, or COUNTRY) NAME POWER

Here's looking forward to a great hunt!

72,

David Porter

aa3ur@home.com
AA3UR

Date: Mon, 27 Aug 2001 15:30:53 -0400
From: "Hartwell, Martin E, NLCIO" <mehartwell@att.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [105887] want to buy dsw30
Message-ID: <CE96E7BD5D14DE4DB6FCEA40EA05517E0372BC@OCCLUST01EVS1.ugd.att.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hello all

I am looking to buy a Dave Benson DSW-30, the 30 meter rig.
I would prefer one already put together if possible. I think also
with the enclosure kit, but I probably could get one of those or
put it in something myself.

Anything like that available?

Marty
kd8bj

Date: Mon, 27 Aug 2001 14:39:11 -0500
From: "George, W5YR" <w5yr@att.net>
To: "qrp-1@Lehigh.edu" <qrp-1@Lehigh.edu>
Subject: [105888] Tuner Wanted
Message-ID: <3B8AA1DF.91BEE6FE@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Anyone have a spare MFJ 969 tuner? This is the 300-watt version of the 3 KW
989C with the rotary inductor.

--

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Date: Mon, 27 Aug 2001 14:50:42 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-canada@neale.gpfn.sk.ca, qrp-1@lehigh.edu
Subject: [105889] X5 shockwave hit 2000UTC
Message-ID: <Pine.SUN.4.10.10108271422571.21854-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
This weekend was mostly on the road, Albuquerque hamfest, setup for a little BUBBA (dead bands - knew something hit!), a little CQC sunday, etc. Had no email access most all weekend.

As most of you discovered, there was a MAJOR X5 flare saturday around mid-day, or about the start of BUBBA. The shockwave from this X5 was detected by the SOHO satellite about 1920UTC, meaning it will hit planet earth a little after 2000UTC (1400 MDT) and trigger at least a MINOR geomagnetic storm. So far, the solar wind has jumped from about 400km/s to 600km/s ... and a sudden increase in density as well ... sufficient to start a sudden onset of a geomagnetic storm when it hits the earth. It will probably last until late this evening, with the strongest effect on 40-80M.

In my BUBBA/CQC post friday, I stated that *if* there were a major flare, it could cause HF blackout conditions, but would not be long lasting. Well ... it WAS long lasting for two reasons:

- 1) I was expecting a M-class flare at best, not an X-class, with an X5 being a pretty darn big flare. An X class flare produces at least ten times the power (x-ray and radio) than an M-class. The X5 delivered gobs of ionizing radiation to the earth, which penetrated down into the D-layer. You add extra ionization to the D-layer ... the absorption layer ... and you have extra absorption. This high D-layer absorption (gobbling up your signal) caused the HF blackout and very poor signals.
- 2) This X5 flare was a "long duration flare," meaning it lasted for several hours, rather than a couple tens of minutes like most flares. See <http://www.sec.noaa.gov/today/html> for the x-ray emissions from this flare, and the M-class that occurred sunday. Between the long duration X5 and the M-class on sunday, planet earth was nearly continuously bombarded with speed-of-light ionizing radiation, keeping the D-layer ionized for near blackout

conditions, and very poor conditions, most weekend. Just at sundown, 40M and 20M opened up suddenly at my QTH, as the ionizing radiation from the sun stopped and the D-layer quickly dissipated. You might have noticed this at your QTH.

This active region is now approaching the center of the sun, meaning any M or X class flares over the next few days will rain down on the earth as a direct hit, and the subsequent shockwave from the flare will hit us nearly head on, for perhaps severe geomagnetic storming and auroral activity.

THE GOOD NEWS is this solar activity has elevated the solar flux to almost 200 (190 Sunday), which is very good for the higher bands. I heard a fair amount of 10M activity during lunch.

Always a shame when such activity has to occur during two contests I certainly wanted to participate in, but for those of you who showed up for them this weekend, you experienced first hand the wrath of a solar storm (the stuff that happens right after the flare) and again today on the lower bands, the geomagnetic storm that occurs 2-3 days AFTER the solar part. Hearing it on the air is better than all the words I can use to explain it :-)

Had a great time at the Albuquerque hamfest, and a few other things this weekend, both off the air and on (attempted, anyway!).

72, Paul NA5N

PS - Sunday during the CQC event, heard both Bill Kelsey N8ET/6 and the "Arizona kid" (Brian Kassel) quite loud, but could never raise them.

Date: Mon, 27 Aug 2001 14:11:23 -0700
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <mpupeza@sympatico.ca>
Subject: [105890] Re: Identify this component - please!
Message-ID: <00b501c12f3c\$d46c5fe0\$ad9eb2d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Man I must have been a bit tired when I responded to that post late last night. I guess the fingers typed the "." in the wrong Hi. The color bands

correspond to a 6.8 Ohm resistor, not a .68 Ohm resistor. Sorry Mike....

72

Trev

KG6CYN

----- Original Message -----

From: Trevor Jacobs <fxtech@earthlink.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Monday, August 27, 2001 12:14 AM

Subject: Re: Identify this component - please!

> Hi Mike,

>

> So how do we classify this as QRP Hi Hi ;-) Well, sounds like either a burnt

> out inductor or a .68 Ohm resistor. I'd check with the manufacturer.

>

> 73

> Trev

> KG6CYN

>

> ----- Original Message -----

> From: Mike Pupeza <mpupeza@sympatico.ca>

> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

> Sent: Sunday, August 26, 2001 3:46 PM

> Subject: Identify this component - please!

>

>

> > Hi;

> > HELP!

> > In fixing my Humminbird LCR2000 Depth Sounder/Fish Finder, I replaced this

> > item with a 220 ohm resistor, and it seems to work.

> > A 1/8th Watt resistor looking thing with the colours of BLUE, GREY, GOLD,

> > GOLD!

> > It provided power, from a controlled 12V source, to one end of the output

> > transformer for the transducer.

> > The other end of that primary went to the Drain of a Power FET with the

> > Source to ground. The Secondary windings went to the transducer.

> > The 'resistor' was open so I have no idea what it was. My manuals don't show

> > that colour combination for a resistor. On the ADE tester it didn't show as

> > a capacitor, nor an inductor!

> >
> > WHAT IS IT? (And the colours are accurate - there is NO burn
> discolouration)
> >
> > Mike VE3EQP....>
> >
>

Date: Mon, 27 Aug 2001 17:29:55 -0400
From: "Howard Kraus" <K2UD@adelphia.net>
To: <w9dz@yahoo.com>
Cc: <qrp-1@Lehigh.EDU>
Subject: [105891] Re: Lower Price on FT-817
Message-ID: <007101c12f3f\$6ce9eec0\$9b603018@buf.adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "Allen Jones" <w9dz@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, August 27, 2001 2:00 PM
Subject: Lower Price on FT-817

> I see that Yaesu has a special going on the FT-817
> through the end of September. \$100 off the regular
> price. Some of the mail order outfits are now under
> \$650 including shipping.

I wonder if they have a new improved version in the works? If so, they may be trying to clear inventory in anticipation of a new release. Kinda like the ICOM IC-706, IC-706MkII, IC-706MkIIG thing.

Let's hope!

72

Howard Kraus, K2UD

Date: Mon, 27 Aug 2001 17:31:58 -0400
From: Ray Sills <raysills@1stconnect.com>
To: QRP list <qrp-l@Lehigh.EDU>
Subject: [105892] Another "Atomic" clock
Message-ID: <B7B03041.86A4%raysills@1stConnect.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang:

My local Sam's Club had a good stock of a model of those digital clocks that receive WWVB. This one was \$20, supports GMT, DST, all US time zones, and has an indoor thermometer. Runs on 2 AA cells. And it has been able to receive the signal from Ft. Collins here in NJ. XYL likes it a lot, and is eyeing it to use in her school classroom. I may have to get another.

73 de Ray
K2ULR
FN20t1

Date: Mon, 27 Aug 2001 16:54:39 -0500
From: Darrel Swenson <k0awb@tcon1.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: myetsko@insydesw.com, "n4so@juno.com" <n4so@juno.com>
Subject: [105893] Re: OT- cellular phone beam antennas
Message-ID: <3B8AC19F.B0A06A08@tcon1.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Hi Mike & Ken

I'm sorry This happens when I quote something from 10 years ago without looking it up first. The correct value for a cellular mobile is 7 watts ERP.

PART 22--PUBLIC MOBILE SERVICES -- Subpart H -- Cellular
Radiotelephone Service Sec. 22.913 Effective radiated power limits. The effective radiated power (ERP) of transmitters in the Cellular Radiotelephone Service must not exceed the limits in this section. (a)

Maximum ERP... The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

The cellular carrier I work for had a problem with this 10 years ago. An antenna manufacturer was marketing a 5 dB mobile gain antenna. Anything beyond about 3.6 dB gain would exceed the 7 watt ERP. They finally added enough cable (loss) to keep the ERP below 7 watts. That is why the instructions always said not to cut the cable when you installed the antenna.

It does make a difference. With only 395 voice channels to work with we had to reuse the frequencies very often. A phone with too much power could create quite a bunch of interference, especially on the fringe service area.

Darrel KOAWB

Mike Yetko wrote:

> I don't think that's an issue, or everyone that puts a gain cell antenna
> on their vehicle would have a problem.

>

> Mike

Date: Mon, 27 Aug 2001 17:54:29 -0500

From: Nick Kennedy <nkennedy@tcainternet.com>

To: "'n2cqr@clix.pt'" <n2cqr@clix.pt>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [105894] RE: 17mtr DSB - finishing up

Message-ID: <01C12F21.5257DA40.nkennedy@tcainternet.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Well, those DC receivers can be pretty sensitive, and the ear can sort out a lot of QRM ... but when the going gets tough, single-signal reception sure helps. Makes the band only half as crowded. So it's not just a superhet, but a superhet with a sharp filter in the IF that gives single signal CW reception that's important. The 2B's opposite side rejection might not be the greatest, but it's better than a DC receiver which has none.

BTW--I also have a beautiful old Drake 2B. I suspect its sensitivity won't compete on the higher bands. Probably I should align before I malign though. (Hey--alliteration!)

72--Nick, WA5BDU

>Here's a question for the groups: Am I right in thinking that when the
>going gets rough (QRN, QRM) the simple DC receiver will simply not be able
>to compete with a good superhet like the 2-B? I think the passband (and
>the noise) will always be about double that of the superhet, correct?

End of QRP-L Digest 2294
